

**WHAT IS CLAIMED IS:**

1. A first-order type drive through system comprising: ~~an~~ orderer system mounted on moving means on which an orderer gets; an acceptance center system which  
5 accepts an ordering from the orderer system; a preparation place system installed in a preparation place where a merchandise is prepared and stored; and a transfer place system installed in a transfer place where the merchandise prepared in the preparation place is transferred to the  
10 orderer, the systems being connected to one another via a network,

wherein at least one of the preparation place system and the transfer place system periodically acquires position information indicating a present position of the  
15 orderer from the orderer system from when ordering information indicating that the orderer has placed an order for the merchandise is received from the orderer system until information indicating that transfer of the merchandise to the orderer has been completed is received  
20 from the orderer system, and grasps the orderer's present position.

2. A first-order type drive through system comprising: an orderer system mounted on moving means on  
25 which an orderer gets; an acceptance center system which accepts an ordering from the orderer system; a preparation place system installed in a preparation place where a

merchandise is prepared and stored; and a transfer place system installed in a transfer place where the merchandise prepared in the preparation place is transferred to the orderer, the systems being connected to one another via a network,

the orderer system comprising:

position information acquisition means for acquiring position information indicating a present position of the orderer;

position information transmission means for transmitting the position information acquired by the position information acquisition means; and

ordering means for transmitting ordering information indicating that the merchandise is ordered to the acceptance center system,

the acceptance center system comprising:

preparation place/transfer place determination means for determining the preparation place where the ordered merchandise is prepared in accordance with the ordering information and the transfer place where the merchandise is transferred upon receiving the ordering information from the orderer system;

ordering information transfer means for transmitting the ordering information to the transfer place system and the preparation place system in the preparation place and the transfer place determined by the preparation place/transfer place determination means; and

position acquisition stop command means for transmitting a command for stopping the acquisition of the position information to the transfer place system and the preparation place system upon receiving transfer  
5 information indicating that the orderer has received the merchandise ordered in accordance with the ordering information from the preparation place system.

3. The first-order type drive through system  
10 according to claim 2, wherein the acceptance center system comprises:

preparation place/transfer place position  
information storage means for storing one or more pieces of  
preparation place/transfer place position information  
15 indicating locations of the preparation place and the transfer place, and

the preparation place/transfer place determination  
means transmits a request for acquiring the position  
information to the orderer system to acquire the position  
20 information upon receiving the ordering information from the orderer system, refers to the preparation place/transfer place position information so that the designated merchandise can be prepared based on the acquired ordering information and position information,  
25 extracts the preparation place positioned in a predetermined distance from the orderer's present position, and extracts the transfer place positioned in a

predetermined distance from the extracted preparation place.

4. The first-order type drive through system according to claim 2 or 3, wherein the preparation place  
5 system comprises:

preparation place position acquisition means for periodically transmitting the request for acquiring the position information to the orderer system from when the ordering information is received from the acceptance center  
10 system until the acquisition stop command is received to acquire the position information.

5. The first-order type drive through system according to any one of claims 2 to 4, wherein the transfer  
15 place system comprises:

transfer place position acquisition means for periodically transmitting the request for acquiring the position information to the orderer system from when the ordering information is received from the acceptance center  
20 system until the acquisition stop command is received to acquire the position information; and

transfer information transmission means for inputting the transfer information and transmitting the inputted transfer information to the acceptance center  
25 system upon completion of transfer of the merchandise to the orderer.

6. The first-order type drive through system according to claim 5, wherein the transfer place system comprises:

trouble occurrence notification means for  
5 monitoring a movement path of the orderer based on the position information acquired by the transfer place position acquisition means and transmitting trouble occurrence information indicating that a trouble has  
10 occurred in transferring the merchandise to the acceptance center system, when a distance between the orderer's present position and the transfer place where the merchandise transfer is scheduled increases with an elapse of time.

15 7. The first-order type drive through system according to claim 6, wherein the preparation place/transfer place determination means newly acquires the position information from the orderer system, and extracts the preparation place and the transfer place again, when  
20 the acceptance center system receives the trouble occurrence information.

8. The first-order type drive through system according to any one of claims 2 to 7, further comprising:  
25 a traffic information management server which is connected to the network to store traffic information of a road,

the transfer place system comprising:

transfer place traffic information acquisition means for transferring a request for acquiring the traffic information to the traffic information management server to  
5 acquire the traffic information; and

transfer place arrival time estimating means for estimating a time at which the orderer reaches the transfer place based on the acquired position information and traffic information.

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9. The first-order type drive through system according to any one of claims 2 to 8,

wherein the preparation place system comprises:

preparation place traffic information acquisition  
15 means for transmitting a request for acquiring the traffic information to the traffic information management server to acquire the traffic information; and

preparation place arrival time estimating means for estimating a time at which the orderer reaches the  
20 transfer place based on the acquired position information and traffic information.

10. The first-order type drive through system according to any one of claims 2 to 9, wherein the orderer  
25 system comprises destination information transmission means for transmitting destination information indicating a destination of movement by the orderer to the acceptance

center system,

the acceptance center system comprises movement path estimating means for estimating a future movement path of the orderer based on the received position information and destination information upon receiving the position  
5 information and destination information from the orderer system, and

the preparation place/transfer place determination means extracts the preparation place and the transfer place  
10 within a predetermined distance from the estimated movement path.

11. The first-order type drive through system according to any one of claims 2 to 10, wherein the  
15 preparation place system comprises preparation place operation situation notification means for transmitting information indicating an operation situation of the preparation place to the acceptance center system,

the transfer place system comprises transfer place  
20 operation situation notification means for transmitting information indicating the operation situation of the transfer place to the acceptance center system, and

the preparation place/transfer place determination means extracts the preparation place and the transfer place  
25 low in operation ratio based on the operation situation upon receiving the information indicating the operation situations of the preparation place and the transfer place.

12. The first-order type drive through system according to any one of claims 2 to 11, wherein the orderer system comprises permission period input means for  
5 inputting a position acquisition permission period indicating a period in which the position information is permitted to be transmitted by the position information transmission means, and

the position information transmittance means  
10 transmits the position information in the limited position acquisition permission period inputted by the permission period input means.

13. A merchandise order receiving method using a  
15 first-order type drive through system comprising: an orderer system mounted on moving means on which an orderer gets; an acceptance center system which accepts an ordering from the orderer system; a preparation place system installed in a preparation place where a merchandise is  
20 prepared and stored; and a transfer place system installed in a transfer place where the merchandise prepared in the preparation place is transferred to the orderer, the systems being connected to one another via a network, the method comprising:

25 an ordering step of transmitting ordering information indicating the ordering of the merchandise to the acceptance center system by the orderer system;



a position information transmission step of transmitting position information indicating an acquired present position of the orderer by the orderer system;

5 a preparation place/transfer place determination step of determining the preparation place where the merchandise ordered in accordance with the ordering information is prepared and the transfer place where the merchandise is transferred based on the ordering information and the position information received from the  
10 orderer system by the acceptance center system;

an ordering information transmission step of transmitting the ordering information to the transfer place system and the preparation place system in the determined preparation place and transfer place by the acceptance  
15 center system;

a preparation place position acquisition step of periodically transmitting a request for acquiring the position information to the orderer system to acquire the position information upon receiving the ordering  
20 information by the preparation place system; and

a transfer place position acquiring step of periodically transmitting a request for acquiring the position information to the orderer system to acquire the position information upon receiving the ordering  
25 information by the transfer place system.

according to claim 13, further comprising:

5 a trouble occurrence notification step of monitoring a movement path of the orderer based on the acquired position information and transmitting trouble occurrence information indicating that a trouble has occurred in transferring the merchandise to the acceptance center system, when the transfer place system recognizes that a distance between the orderer's present position and the transfer place where the merchandise transfer is  
10 scheduled increases with an elapse of time; and

a preparation place/transfer place determination step of newly acquiring the position information from the orderer system to determine the preparation place and the transfer place, when the acceptance center system receives  
15 the trouble occurrence information.

15. The merchandise order receiving method according to claim 13 or 14, further comprising:

20 a transfer information transmission step of inputting transfer information indicating that the orderer has received the ordered merchandise by the ordering information to transmit the inputted transfer information to the acceptance center system upon completion of the transfer of the merchandise to the orderer by the transfer  
25 place system; and

a position acquisition stop command step of transmitting a command for stopping the acquisition of the

position information to the transfer place system and the preparation place system upon receiving the transfer information by the acceptance center system.

5           16. A program for allowing a computer to execute:  
            an ordering information input process of inputting  
            ordering information indicating a merchandise ordering from  
            an orderer;

            a position information input process of inputting  
10           position information indicating a present position of the  
            orderer;

            a preparation place/transfer place determination  
            process of determining a preparation place where a  
            merchandise ordered in accordance with the ordering  
15           information is prepared and selected and a transfer place  
            where the merchandise is transferred based on the inputted  
            ordering information and position information; and

            an ordering information output process of  
            outputting the ordering information to information  
20           processing devices installed in the determined preparation  
            place and transfer place and permitting the acquisition of  
            the position information.

            17. The program according to claim 16 for  
25           allowing the computer to execute:

            a trouble occurrence notification input process of  
            inputting trouble occurrence information indicating that a

distance between the orderer's present position and the transfer place where the merchandise transfer is scheduled increases with an elapse of time and a trouble has occurred in merchandise transfer; and

5           a     preparation     place/transfer     place     re-determination process of newly inputting the position information to determine the preparation place and the transfer place again, when the trouble occurrence information is inputted.

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18.     The program according to claim 16 or 17 for allowing the computer to execute:

15           a transfer information input process of inputting transfer information indicating the completion of the merchandise transfer to the orderer; and

20           a position acquisition stop command process of outputting a command for stopping the acquisition of the position information to information processing devices installed in the preparation place and the transfer place, when the transfer information is inputted.